## **Installation Manual**

## Model 697BB

## 115 Gallon Preservative Applicator For New Holland BigBaler and Case IH LB 4



P.O. Box 63 ⊕ 2821 Harvey Street ⊕ Hudson, WI 54016 800-635-7468 ⊕ www.harvesttec.com **DECLARATION OF INCORPORATION** 

# CE

MANUFACTURER:

Harvest Tec Inc. 2821 Harvey St. P.O. Box 63 Hudson, WI 54016, U.S.A.

#### REPRESENTATIVE ESTABLISHED IN COMMUNITY: Profitable Farming Company Middle Barlington, Roborough Winkleigh, Devon, EX19 8AG ENGLAND

The person above certifies and declares that:

VIRTUAL MACHINE: Equipment mounted on a farm press and for the application of innoculants onto forage crops. MODEL: 697BB-INST-17-Imp&Metric BRAND: Harvest Tec SERIAL NUMBER:

This application preservatives for hay Harvest Tec system meets the Directive 2006/42/EC of the European Parliment and the Council of 17 May 2006 and other applicable European Directives including Directive 2004/108/EC on the Electromagnetic compatability.

The application of preservatives for hay Harvest Tec system will be turned on after being installed on a farm press has been declard in conformity with the Machinery Directive.

Person in the community authorized to provide information on the partly completed machinery and making this statement:

Richard Snell, President, Profitable Farming Company

Signed on May 21, 2011: Middle Barlington, Roborough Winkleigh, Devon, EX19 8AG ENGLAND

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#### Introduction

Thank you for purchasing the 697BB Hay Preservative Applicator System. This applicator system has been designed to plug directly into the baler's ISOBUS and display on the New Holland Intelliview 3 or Intelliview 4, Case Pro 300 or Pro 700. As well as the option of operation through an Apple iPad (not included) using the Hay App. The 697BB Preservative Applicator System offers these advantages:

- 1. Operation coordinated with baler operation
- 2. Less cab clutter providing better visibility
- 3. Ease of use with all information on one screen
- 4. Records kept together
- 5. The system is ready for future updates

The 697BB Hay Preservative Applicator System is designed to apply buffered propionic acid to the forage crop as it is baled. The 697BB Applicator will adjust the rate of application based on moisture and tonnage of the crop being harvested. This manual will take you through the steps of installing the applicator. Please read this manual carefully to learn how to install the equipment correctly. Failure to do this can result in personal injury or equipment malfunction. If you are unsure about installing the system after consulting this manual, contact your local authorized dealership for additional assistance or look for the contact information on the back cover of this manual. If you are in need of parts for the system please view the Parts Breakdowns toward the back of this manual and contact your local authorized dealer to order the parts. This applicator is designed to apply Crop Saver and Thirty Plus buffered propionic acid.

Right and Left sides are determined by facing in the direction of forward travel.

#### \*Made for iPad<sup>®</sup> (3<sup>rd</sup> through Pro 2<sup>nd</sup> generation), running the current iOS operating system or one version previous required for iPad option

\*iPad is a trademark of Apple Inc., registered in the U.S. and other countries.

#### \*\*600 Series Applicators with serial number before DCP27000 will require the DCP to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6672C).

\*Hay App version must be at least 2.5.18 (or higher) to operate with the iPad Integration Module

BALER MAKE	MODEL	INSTALL KIT
Case IH	LB 234 Standard or Packer	030-4532B
	LB 334 Standard or Packer	030-4533B
	LB 334 Roto Cut	030-4535B
	LB 434 Standard or Packer	030-4534B
	LB 434 Roto Cut	030-4536B
New Holland	BB 230 Standard or Packer	030-4532B
	BB 330 Standard or Packer	030-4533B
	BB 330 Roto Cut	030-4535B
	BB 340 Standard or Packer	030-4534B
	BB 340 Roto Cut	030-4536B

#### **Installation Kit Reference Chart**

#### **Tools Needed**

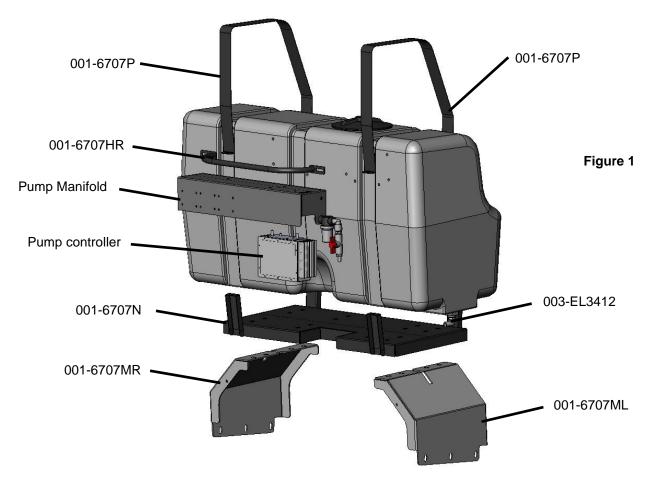
- Standard wrench set
- Crescent wrench
- Standard socket set
- Hose cutter

- Electric drill and bits
- Standard screwdriver
- Hammer
- Center punch

- Side cutter
- Standard nut driver set
- Metal cutting tools

#### Installation of Applicator

#### 1. Removal of Tank Straps and Tank



- 1. Remove the two tank straps (001-6707P) by removing all eight 3/8" hex nuts. Figure 1
- 2. Lift the tank (005-9218) away from the saddle (001-6707N) and place the tank on a smooth flat surface.
- 3. Install the pump supply elbow (003-EL3412) on the bottom of the tank. Figure 1
- 4. Install the drain/fill elbow (003-EL3434) on the side of the tank below the sight gauge.

#### 2. Installation of Saddle Legs and Saddle

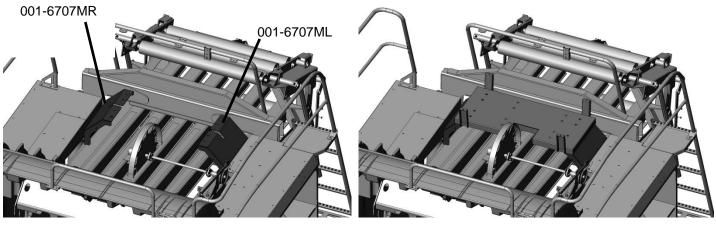


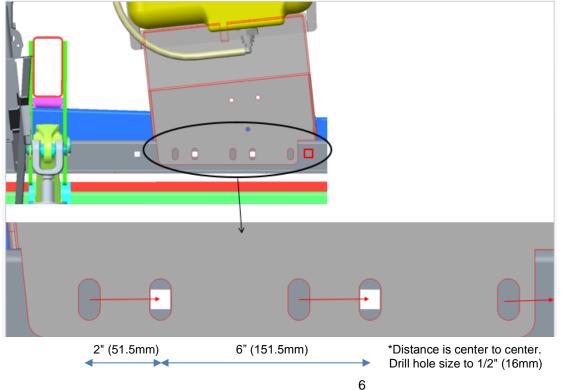
Figure 2

Figure 3

- 1. Install the two saddle legs (001-6707MR & 001-6707ML) on to the top of the baler chute as shown. Fig 2
- Secure the two legs with six (three per side) 1/2" x 1-3/4" carriage bolts, flats washers, locks washers, and hex nuts. The six holes will be already punched out of the baler frame and will line up with the saddle legs. Make sure the bolt head is in the chamber.
- 3. Install the tank saddle (001-6707N) on top of the saddle legs. Figure 3
- 4. Secure the tank saddle to the saddle legs using eight (four per side) 1/2" x 1-3/4" carriage bolts, flat washers, lock washers, and hex nuts. Use the outside set of holes for four foot wide balers and the inside set of holes for three foot wide balers. Figure 3
- 5. Make sure the carriage bolt heads are on top of the saddle and the bolt points towards the bale chamber.
- 6. Install the tank and secure with the straps and hardware removed from before. The tank straps will need to be secured with a double nut.

#### New Holland 330+ & CaseIH LB334XL Balers

The tank leg mounting location will need to be moved toward the back of the bale chute with baler models NH330+ and Case LB334XL. Move the location back of the baler 6" (151.5mm) and drill extra hole (below)



#### **Optional Rear Light Camera Brackets (not included)**

There is now an optional rear light extension bracket available for the NH330+ & NH340+ and LB334XL & 434XL baler models. To reposition the lights, camera and beacon light to the back of the preservative tank (Fig 4).

Install the camera/light bracket (001-6707PM) as shown on the right by lining up two holes in the arms of the bracket with the holes on the tank straps. Using the supplied elevator bolts install the bolt with the head on the tank side with threads pointing upward.

Install the camera mounting brackets (001-6707PMZ) to the camera light bracket as shown on right. Move the lights and camera as needed using the light extension harness (006-7303LTX).

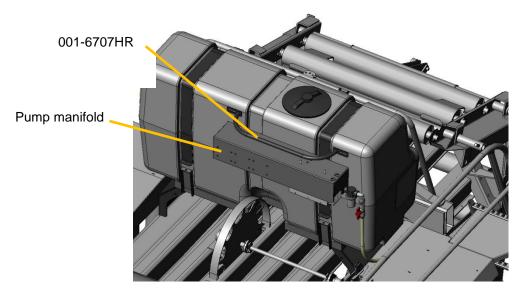
3. Installation of Pump Manifold and Hand Rail

#### Note:

The straps will need to be loosened to allow room for placement of the bolts. Retighten after bolts are installed.

# 001-6707PMZ the 4).

Figure 4



- 1. Locate and attach the filter bowl assembly to the outside of the pump manifold. Remove the four flange bolts that connect the two parts of the pump manifold together. Figure 4
- 2. Connect the pump manifold mounting bracket to the tank and secure with six 3/8" x 3/4" flange bolts. Reinstall the other half of the pump manifold and secure with four 3/8" x 3/4" flange bolts. Figure 4
- 3. Install the handrail (001-6707HR) above the pump manifold using two 3/8" x 3/4" flange bolts. Figure 4
- 4. Install the Pump Controller (006-5672) on to the pump manifold. Secure using two 5/16" lock washers, flat washers and hex nuts. Figure 1
- 5. Locate the 1/2" (13mm) hose and connect the filter bowl assembly to the sump tank fitting using the supplied two hose clamps. Figure 4

## The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps

#### 4. Installation of Dual Channel Processor (DCP)

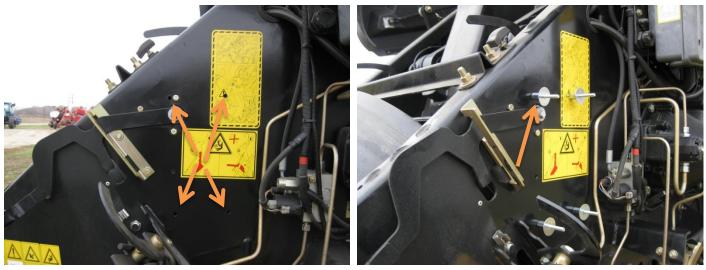


Figure 5

Figure 6

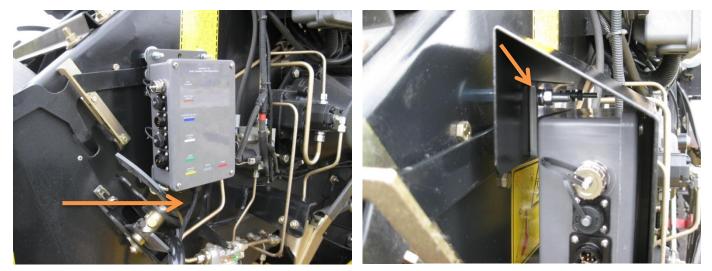


Figure 7

Figure 8

- 1. Locate the Dual Channel Processor (DCP) 006-6671LS.
- 2. Lock the baler flywheel brake and lift open the front hood.
- 3. Locate the four holes by the fly wheel brake. (Figure 5)
- 4. Use four 5/16" x 3" hex bolts with four flat washers (positioning bolt heads on the inside of the baler frame) and secure to the baler with four 1 1/8" threaded standoffs that will be on the outside of the baler frame, Position four fender washers between the DCP and standoffs (Figure 6.)
- 5. Mount the DCP with the display cable pointed down to the baler. (Figure 7)
- 6. Attach lock washers and hex nuts to mount the DCP to the baler. Do not tighten down yet (Figure 7)
- 7. Before tightening hardware install the DCP shield (001-5650X) over the top two 5/16" bolts between the fender washers and the mounting plate of the DCP. And finally tighten all hex nuts. (Figure 8)

#### 5. Installation of Star Wheel Moisture Sensors

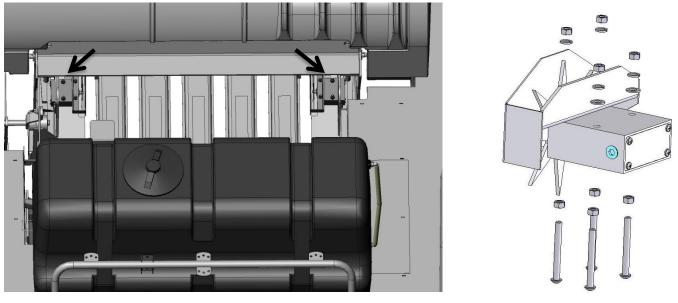


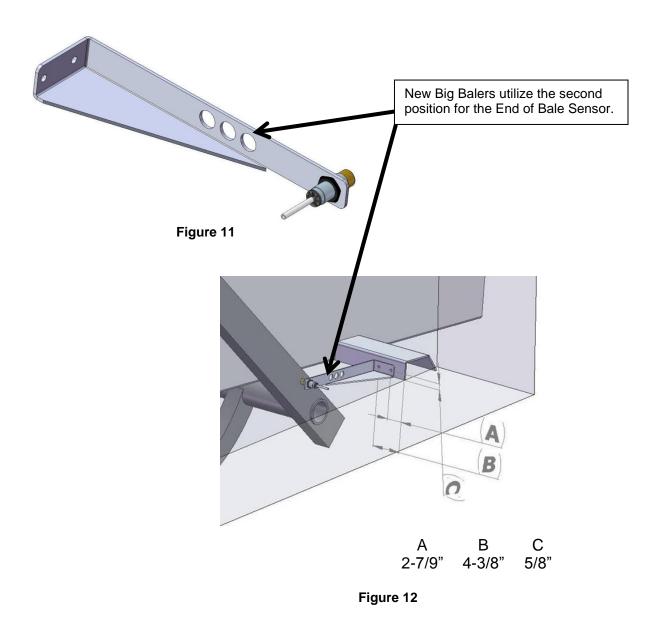
Figure 9



- 1. Locate the two star wheel moisture sensors (030-4641) and twine diverters (001-4644 & 001-4645)
- 2. Directly behind the knotters, locate the four predrilled holes per side shown at the arrows. This location is also beneath the lift points on top of the baler. Figure 9
- 3. Install the eight (four per side) 5/16" x 3" Allen head cap screws. Make sure the Allen heads are in the bale chamber. Secure using eight 5/16" hex nuts. Figure 10
- 4. Install the star wheels below the lift points on the baler.
- 5. Install the twine diverters over the star wheel sensor. The twine diverter with two extra sensors will be installed on the right star wheel.
- 6. Secure the star wheels and twine diverters with four 5/16" hex nuts, lock washers, and two flat washers. Figure 10

#### 6. Installation of End of Bale Sensor

The end of bale sensor determines the position of the needles on the baler. When the needles cycle the sensor communicates this information to the Dual Channel Processor. This information is used for job records and will be used by the optional Bale Identification system.



Mount the end of bale sensor bracket (001-4648) as shown (figure 11-12) on the ladder side of the baler (and same side as the main controller). Mark and drill two 3/8" (10mm) holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Keep the sensor 1/4" (7mm) from the needle and tighten both nuts. New BB Balers have been installing the End of Bale Sensor in the second position and trimming off the excess steel. Run the sensor cable (006-7400) and extension (006-7400BBEXT) up to the Dual Channel Processor (DCP) down the ladder side of the baler and secure it properly out of the way of any moving parts and hydraulics.

#### 7. Installation of the Drain Fill Line

- 1. Thread 3/4" elbow fitting into end of tank.
- 2. Run hose from the elbow down the frame to the bottom of the baler (figure 13).
- 3. Drill 1/4" (7mm) holes to accept the valve holder bracket and use 5/16" x 1" self-tapping screws (figure 14).
- 4. Connect valve assembly to other end of hose. Place hose clamps on both ends.
- 5. Secure hose to frame using cable locks.

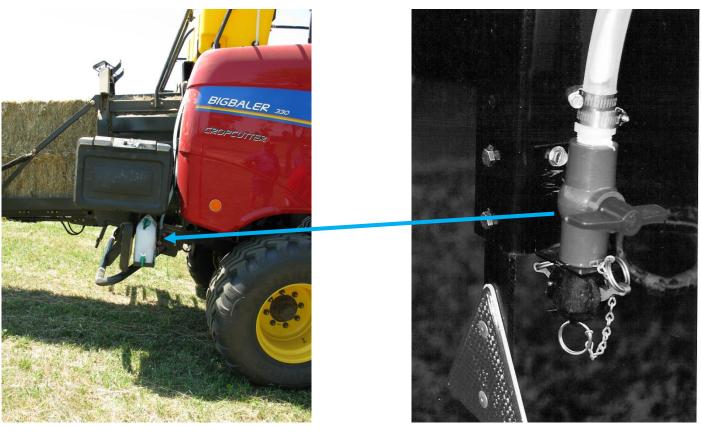


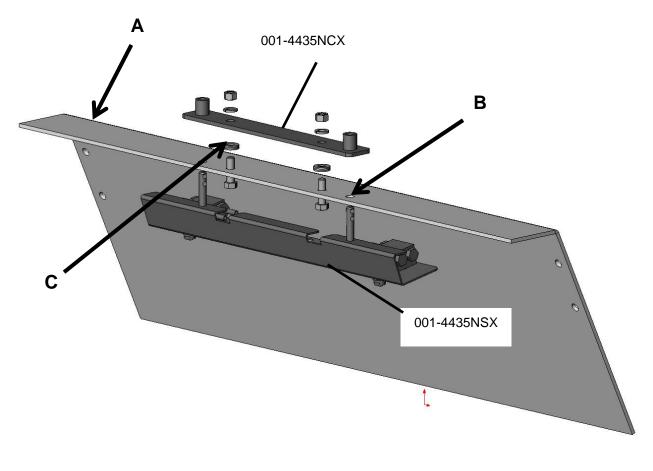
Figure 13

Figure 14

#### 8. Installation of the Spray Shield

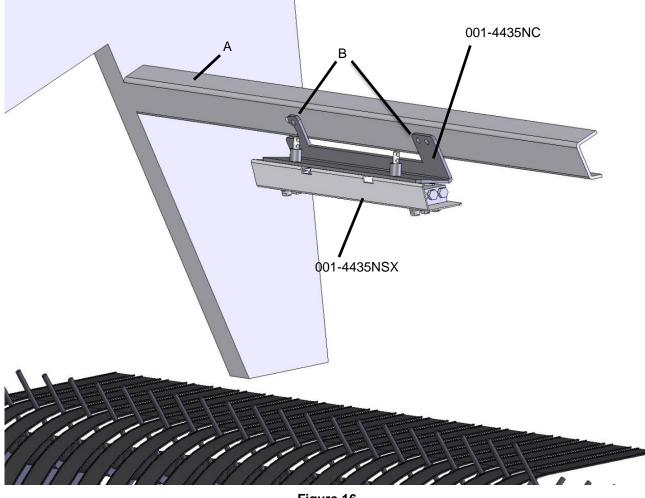
The spray shield assembly is designed to spray the hay evenly as the baler picks it up. A sketch of the spray shield nozzle holder is shown below.

#### **BigBaler Standard and Packer Models** Installation Kit 4532B, 4533B & 4534B





- 1. Locate the flat steel directly above the stuffer forks. Figure 15, Point A
- 2. Align the spray shield holder (001-4435NCX) to the center of the flat steel.
- 3. Using the shield holder (001-4435NCX) as a template clamp the holder to the baler, mark the four holes and drill them to 7/16" (9mm) diameter (figure 15 point B).
- 4. Attach the shield holder (001-4435NCX) to the baler through the two center holes using the two 3/8" x 1-1/4" hex bolts, six flat washers, two lock washers, and two hex nuts. Six washers (three per side) may need to go between the baler and the spray shield holder (figure 15 point C).
- 5. Install the spray shield (001-4435NSX) to the holder and secure by using two lynch pins. Remove washers if necessary (Point C), but allow for a tight fit.



- Figure 16
- 1. Locate the baler cross member directly above the rotor (figure 16 point A).
- 2. Locate the four pre-drilled holes on the cross member (figure 16 point B).
- 3. Install spray shield holder (001-4435NC) to baler using three 5/16" x 1" bolts, lock washers, hex nuts.
- 4. Install the spray shield (001-4435NSX) to the the shield holder (001-4435NC) and secure with supplied lynch pins.

#### Wind Guard Installation

#### 3x3 Baler

Step 1: Locate the factory drilled holes on both sides of the baler tongue. The general location of these holes are shown in the image to the right. If holes are not present or a different location is desired, drill appropriately.

Step 2: Assemble the wind guard (030-6707WG3). Start by locating all materials listed previously. Next, align the 1/4" (6mm) holes of the guard material (001-6707GM3) with the 1/4" (6mm) holes of the 001-6707MER/MEL brackets. (*It is recommended to place the guard material on top of the brackets*).

Next align a 001-6707MF backing plate with the 1/4" (6mm) holes on each end of the assembly. (*The rubber guard material should now be sandwiched between the mounting bracket and backing plate*). Finally, fasten together with the 1/4" hardware provided.

Step 3: Bring the assembled wind guard to the baler. Using the 5/16" hardware, fasten the wind guard to baler using the outside holes of the brackets & the holes located or drilled from Step 1.



#### 3x4 Baler

<u>Step 1:</u> Locate the ledge near the spray shield (1) and with 001-6707MA in hand, mark out drill locations for the two slots of the 6707MA bracket. Bracket should be as centered about the spray shield. If you're confident with drill locations, drill the two holes and move to step 2. Also note the factory drilled holes on the tongue of the baler (2), locate part 001-6707MC and ensure holes align on both sides.

<u>Step 2:</u> Assemble the wind guard (030-6707WG4). Start by locating the all of the materials listed above. Using the 1"x 1/4" bolts and washers place the guard material (001-6707GM4) on the top bracket. Guard material should now be held in place with only the bolts. Locate part (001-6707MB) and place over protruding bolts, secure with flat washers and nuts. Note: Ensure the rubber guard material is placed on the top side of the of the 6707MA bracket.

<u>Step 3:</u> Again using the same hardware from step 2 fasten the guard material to the bottom bracket (001-6707MC) utilizing the remaining 001-6707MB backing bracket to clamp down the material.

<u>Step 4:</u> Bring assembled wind guard to the baler, it is recommended that you get another person to assist here. Start by securing the top bracket to the ledge where holes were previously drilled. Secure with  $5/16 \times 1$ " hardware. Now locate the  $5/16 \times 1.5$ " bolts. Use the bolts, flat washers and nuts to secure the bottom bracket to the baler factory drilled holes. Refer to finished install side view shown on the right.

<u>Note:</u> If installed correctly, the wind guard should not make contact with the fly wheel or center feed roll when the pick-up head is fully lifted.

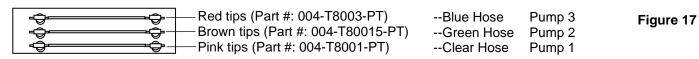




#### 9. Plumbing

- A. Locate the three 1/4" (7mm) hoses colored clear, blue, and green. The pumps will need to be connected to specific tips (figure 17 and 18) so the pump numbers are as follows: Pump 1 is closest to the filter bowl, pump 2 is in the middle, and pump 3 is the outside pump.
- B. Slide the jaco nut over the end the hose and insert the hose into the jaco fitting of the pump and tighten the jaco nut. Because all nozzles on the spray shield are different the operator will need to match the correct pump position with the correct nozzles and tip positions.
- C. KEEP HOSE AWAY FROM: MOVING PARTS, SHARP METAL AND HYDRAULIC LINES. WORKING TEMPERATURE FOR THE HOSE IS 140 °F AND UNDER.
- D. Tie the hose down at secure locations on the baler using the enclosed tie straps and cable clamps.

#### High Output Tips for Rates Requiring 84-632 lbs/hr. (Approximately 21-63 tons/hr)



#### Low Output Tips for Rates Requiring 44-400 lbs/hr. (Approximately 11-40 tons/hr)

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\_\_Brown tips (Part #: 004-T80015-PT) --Blue Hose Pump 3 \_\_Pink tips (Part #: 004-T8001-PT) --Green Hose Pump 2 \_\_Silver tips (Part #: 004-T800067-SS --Clear Hose Pump 1

Figure 18

#### 10. Installation of Star Wheel and Bale Rate Harnesses

1. Remove the cover from the star wheel block and use a 1/4" nut driver to remove the nut from the electronic swivel.

2. Run the star wheel sensor wire through the black grommet and place the eye terminal on the star wheel sensor. Tighten the eye loop with the nut on the sensor and put the star wheel cover back on the base.

3. Tighten the grommet to form a tight seal around the wire. The bale rate sensors will be factory installed on the right side twine guard in the correct position. **The sensor with the longer sensor wire will say "FRONT",** which indicates it should be placed in the front sensor hole closer to the front of the baler. The sensor with the shorter wire will say "BACK."

The tip of the sensor should be placed no more than 1/4" (7mm) away from the star wheel teeth and no less than 1/8" (3mm) from the star wheel teeth. Each sensor will have an LED light located on the sensor by the diverter. Once the unit is powered up spin the wheel and make sure that both led lights turn on and off. If they don't turn on and off, adjustments may need to be made.

4. Once the star wheel connection is complete, run the harness along the left side baler frame to the Dual Channel Processor (DCP). The Dual Channel Processor is located next to the flywheel brake.

#### 11. Installation and Routing Wire Harnesses and Baler Interface Harness



Route harnesses along inside of the baler (figure 19). Keep harnesses away from moving parts and hydraulic hoses. Secure with existing cable clamps or use cable ties. When all connections are made to the DCP secure wires as shown above to allow for water to be shed away from the DCP.

Figure 19



Figure 20

Locate and remove the Active Terminator of baler (figure 20 and 21). Attach Baler Interface Harness (006-6650VA) to that location. Reconnect Active Terminator to open port of that same harness (006-6650VA)



Figure 21

#### 12. Installation of iPad Integration Control

Locate a safe location in the cab of the tractor to place the iPad Integration Control (030-6672C). Recommended location is securely fastened out of the operators way in a location that is close enough to reach with the iPad cord.

## Connect the Power / Communication harness (006-6650TM(E)) to the bottom of the receiver.

To operate the applicator, plug the iPad cord into the communication port indicated by:



#### iPad Integration Control Light Signals

Green Slow Blink – Power supplied to the applicator system and the unit is going through its startup process. This will take approximately 25-35 seconds.

Green Double Blink – Indicating the iPad module recognizes the iPad but the app is not open or connected.

Green Solid Light – Module is connected to the app and is ready to operate.

\*Recommended to use the USB cable included with the applicator kit (006-6672USBC)

#### **Bluetooth Receiver Lights**

Pre-2020 applcaitors equipped with Bluetooth receivers (030-6672B) are now equipped with lights to indicate both power and Hay App connection on the Apple iPad. Clean light regularly

*Blinking Lights* – System is waiting for the processor to connect, which could take up to 35 seconds.

Red Light - The Bluetooth receiver has power

Green Light – The Bluetooth receiver is connected to the Hay App.

#### \*\*600 Series Applicators with serial number before DCP27000 will require the DCP to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6672C).

Hay App version must be at least 2.5.18 (or higher) to operate with the iPad Integration Module

#### \*Made for Apple iPad badge

Use of the Made for Apple iPad badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with an Apple product may affect wireless performance.



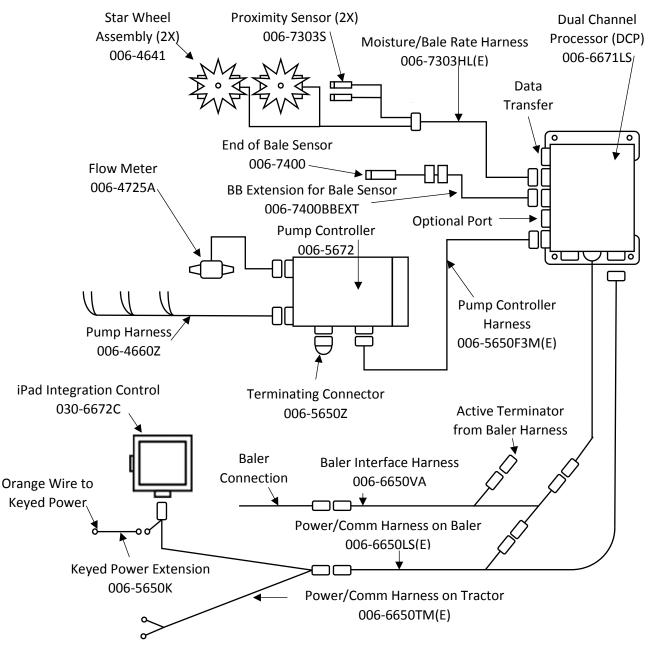






#### Wiring Diagram

- A. The Baler Power/Communication Harness (006-6650LS) will attach to the open port of the Tractor Harness (006-6650TM(E)) and run back to the Dual Channel Processor (006-6671LS). Connect the large plug of the Baler Power/Communication Harness (006-6650LS) to the bottom (shorter side) of the DCP.
- B. Attach the **Baler Interface Harness** (006-6650VA) in between the short whip cable hardwired to the DCP and the main Power/Communication Harness (006-6650LS). Make sure Active Terminator removed from the top of the baler processor is attached to Baler Interface Harness (006-6650VA).
- C. Install green terminator (006-5650Z) to the port labeled Modular Port on the Pump Controller (006-5672).
- D. Attach moisture and bale rate harness (006-7303HL(E)) as well as the end of bale harness (006-7400BBEXT) to the DCP (006-6671LS).
- E. Attach the Pump Control Harness (006-5650F3M(E)) between the Pump Controller (006-5672) and the DCP (006-6671LS).
- F. Connect Keyed Power Extension harness (006-5650K) to a keyed power source.
- G. Connect the iPad Integration Control (030-6672C) to the Communication Harness (006-6650TM). Note: The Optional Port and the Data Transfer Port are not used in this application.



\*Note: (E) indication is used for International Dealers

#### **Pin Outs**

Power	<u>/Comm</u>	h Harness 006-6650TM(E) at Hitch
Pin 1	Red	+12V Power to TSD

Pin 2	Red	+12V Power to DCP
Pin 3	Orange	Keyed Power
Pin 4	Gray	Shield
Pin 5	Green	HT Can Low
Pin 6	Yellow	HT Can Hi
Pin 7	Orange	Can1 Hi
Pin 8	Black	Ground from TSD
Pin 9	Black	Ground from DCP
Pin 10	Blue	Can1 Low

#### Power/Comm Harness 006-6650LS(E) at Hitch

Pin 1	Red	+12V Power to TSD
Pin 2	Red	+12V Power to DCP
Pin 3	Orange	Keyed Power
Pin 4	Gray	Shield
Pin 5	Green	HT Can Low
Pin 6	Yellow	HT Can Hi
Pin 7	Orange	Can1 Hi
Pin 8	Black	Ground from TSD
Pin 9	Black	Ground from DCP
Pin 10	Blue	Can1 Low

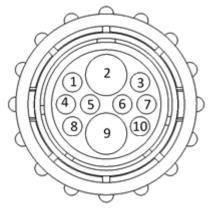
#### iPad Integration Control / BLE on Harness 006-6650TM(E) Pin 1 Red +12V Power from DCP

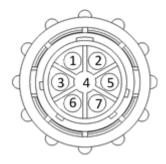
Pin 1	Red	+12V Power from D
Pin 2	Black	Ground from TSD
Pin 3	Yellow	HT Can Low
Pin 4	Gray	Shield
Pin 5	Green	HT Can Hi
Pin 6	Orange	Can1 Hi
Pin 7	Blue	Can1 Low

#### 006-6650VA to DCP Whip

Pin 1	Red	Can Power
Pin 2	Black	Can Ground
Pin 3	Yellow	HT Can Hi
Pin 4	Gray	Shield
Pin 5	Green	HT Can Low
Pin 6	Orange	Can1 Hi
Pin 7	Blue	Can1 Low









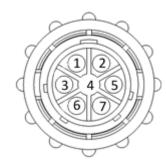
#### Pin Outs (continued)

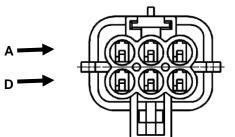
#### 006-6650VA to 006-6650 LS(E)

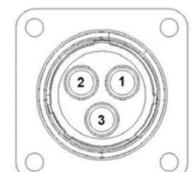
Pin 1	Red	Can Power
Pin 2	Black	Can Ground
Pin 3	Yellow	HT Can Hi
Pin 4	Gray	Shield
Pin 5	Green	HT Can Low
Pin 6	N/A	
Pin 7	N/A	

#### 006-6650VA Harness to Baler Plug

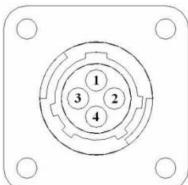
Pin A	N/A	
Pin B	Red	TBC Power
Pin C	N/A	
Pin D	Gray	TBC Ground
Pin E	Orange	Can1 Hi
Pin F	Blue	Can1 Low











#### Main Power Connector on DCP

Pin 1	Red	+12V Power from tractor
Pin 2	Black	Ground from tractor
Pin 3	Orange	Keyed power

#### Star Wheel and Bale Rate Sensor Connector on DCP

Pin 1	Blue	+12V Power
Pin 2	Orange	Ground
Pin 3	Black	Signal for sensor 1
Pin 4	White	Signal for sensor 2
Pin 5	N/A	
Pin 6	N/A	
Pin 7	N/A	
Pin 8	Violet	Star wheel input 1
Pin 9	Brown	Star wheel input 2

#### End of Bale Sensor on DCP

Pin 1	Brown	Sensor Power
Pin 2	Blue	Sensor Ground
Pin 3	N/A	
Pin 4	Black	Signal from Sensor

#### Pin Outs (continued)

#### Pump Communication Plug on DCP

Red	+12V Can
Red	+12V Power
Gray	Shield
Green	Comm Channel OH
Yellow	Comm Channel OL
Blue	Comm Channel IH
Orange	Comm Channel IL
Black	Can Ground
Black	Power Ground
N/A	
	Red Gray Green Yellow Blue Orange Black Black

#### Pump Connection Colors

Black with Orange Stripe	Pump 1 Ground
Black with Green Stripe	Pump 2 Ground
Black with Yellow Stripe	Pump3 Ground
N/A	
Orange with Black Stripe	Pump 1 Positive
Green with Black Stripe	Pump 2 Positive
Yellow with Black Stripe	Pump 3 Positive
	Black with Green Stripe Black with Yellow Stripe N/A Orange with Black Stripe Green with Black Stripe

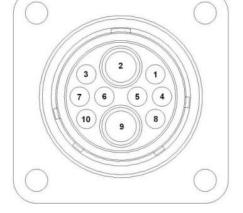
#### Flow Meter Connection on Pump Controller

Pin 1	White	+5-12V Power
Pin 2	Green	Ground
Pin 3	Brown	Signal
Pin 4	Black	Shield

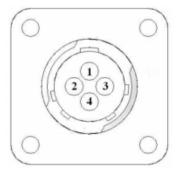
#### Connector for Crop Eyes on DCP

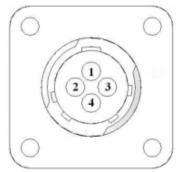
Pin 1	Red	+12V Power
Pin 2	Black	Ground
Pin 3	White	Signal

Pin 3 White Pin 4 N/A









#### 21

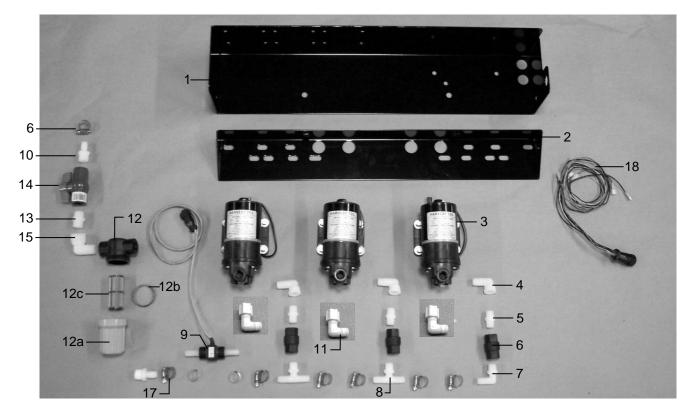
#### Parts Breakdown Parts Breakdown for Tank, Saddle and Saddle Legs





<u>Ref</u>	<b>Description</b>	Part Number	Qty	<u>Ref</u>	<b>Description</b>	Part Number	Qty
1	Tank	005-9218	1	9	Right saddle leg	001-6707MR	1
2	1/2" tank fitting	005-9104	2	10	1/2" hose	002-9001	2
3	Elbow	003-EL1212	2	NP	Not Pictured:		
4	Tank straps	001-6707P	2	NP	Elbow	003-EL3434	1
5	Tank saddle	001-6707N	1	NP	Elbow	003-EL3412	1
6	Handrail	001-6707HR	1	NP	3/4" tank fitting	005-9100	2
7	Tank lid	005-9022H	1	0	Optional:		
8	Left saddle leg	001-6707ML	1	0	Tank lid strainer	005-9022HBS	1

## Parts Breakdown for Pump Manifold



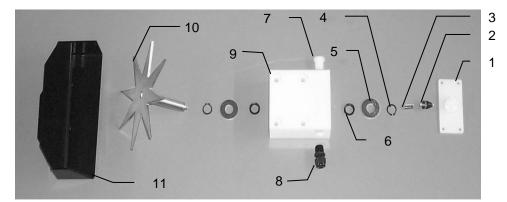
#### <u>R</u>

Ref#	Description	Part#	<u>Qty</u>
1	Pump plate	001-4646D	1
2	Mounting Bracket	001-4646C	1
3	Pump	007-4120H	3
4	Street elbow fitting	003-SE38	3
5	Nipple fitting	003-M3838	3
6	Check valve	002-4566F	3
7	Elbow fitting	003-EL3812	1
8	Tee fitting	003-T3812HB	2
9	Flow meter assembly	006-4725A	1
10	Straight fitting	003-A1212	2
11	Jaco fitting	003-JEL1238	3
12	Filter bowl assembly	002-4315-100	1
12a	Filter bowl only	002-4315F	1
12b	Filter bowl gasket	002-4315D	1
12c	Filter bowl screen	002-4315A	1
13	Nipple fitting	003-M1212	1
14	Ball valve	002-2212	1
15	Street elbow fitting	003-SE12	1
16	Hose clamp	003-9003	7
17	Hose clamp (Flow Meter)	003-9005	2
18	Pump Cable	006-4660Z	1
NP	Elbow	003-EL1212	1
NP	Pump rebuild kit (1 per pump)	007-4581	1

Complete Pump Assembly

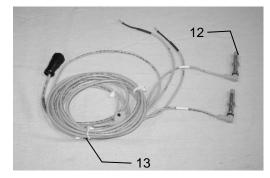
030-4646

#### **Star Wheel Moisture Sensor and Bale Rate Sensor**



<u>Ref</u>	<b>Description</b>	Part Number	<u>Qty</u>
1	Block cover	006-4641B	2
2	Electronic swivel	006-4642A	2
3	Swivel insert	w/ Ref # 10	2
4	Snap ring (per side)	006-4641K	2
5	Washer (per side)	w/006-4641K	2
6	Dust seal (per side)	w/006-4641K	2
7	Plug fitting	003-F38	2
8	Wiring grommet	008-0821A	2

<u>Ref</u>	<b>Description</b>	Part Number	<u>Qty</u>
9	Star wheel block	006-4641A	2
10	Star wheel sensor	030-4641C	2
11	Twine guard-left	001-4645	1
	Twine guard-right (prox) with bale rate sensor holes in it	001-4644	1
1-10	Star wheel assembly	030-4641	2



<u>Ref</u>
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13

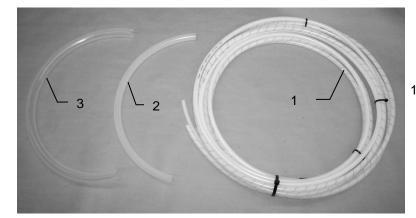
Ref	<b>Description</b>
12	Bale rate sen

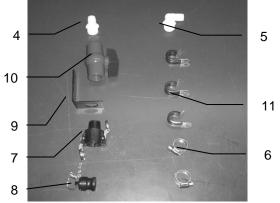
e rate sensor Moisture and bale rate harness

Part Number	Qty
006-7303S	2
006-7303HL(E)	1

\*Note: (E) indication is used for International Dealers

#### Parts Breakdown for Hose and Drain Fill Line





<u>Ref</u> 1	Description Triple weld hose (pumps to tips)	Part Number 002-9016 002-9016B 002-9016G	<u>Qty</u> 25ft 25ft 25ft	Ref 7	<b>Description</b> Female Coupler	<u>Part Number</u> 002-2204A	<u>Qty</u> 1
	Three hose assembly	030-9016LS	1				
2	1/2" Hose (tank to filter)	002-9001	6ft	8	Male Coupler	002-2205G	1
3	3/4" Hose (tank to drain/fill valve)	002-9002	10ft	9	Valve Holder	001-6702H	1
4	Straight Fitting	003-A3434	1	10	Ball valve	002-2200	1
5 6	Elbow Hose Clamps	003-EL3434 003-9004	1 2	11	Jiffy Clip	008-9010	3

#### Parts Breakdown for 697BB Series Controls and Harnesses Dual Channel Processor (DCP)



#### Ref Description

- 1 EOB Extension for CNH BB Series
- 2 Terminating Connector 600 Series
- 3 End of Bale Sensor Bracket
- 4 End of Bale Sensor 600 Series
- 5 DCP Shield/Cover
- 6 DCP Main Control LS 600 AUTO
- 7 Pump Controller
- 8 Key Switch Wire
- 9 DCP Baler ISO/VT Harness
- 10 DCP Tractor Harness
- 11 Modular Power/Comm 20 FT Harness
- 12 Dust Plugs
- 13 DCP Baler Harness 15 FT
- NP USB Cable

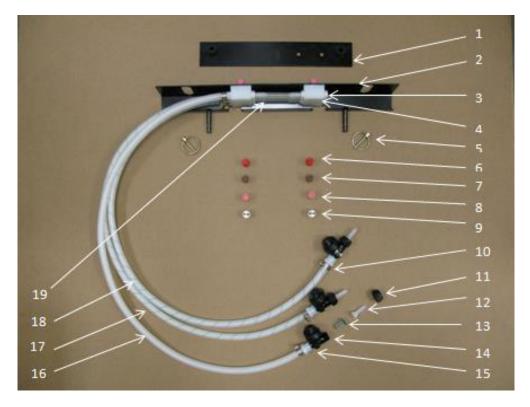
**Part Number** Qty 006-7400BBEXT 1 006-5650Z 1 001-4648 1 006-7400 1 001-5650X 1 006-6671LS 1 006-5672 1 006-5650K 1 006-6650VA 1 006-6650TM(E) 1 006-5650F3M(E) 1 006-5651PLUGS 1 006-6650LS 1 006-6672USBC

\*Note: (E) indication is used for International Dealers



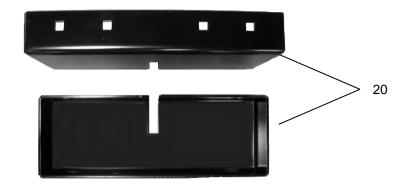
Part #: 030-6672C

#### Harvest Tec Model 4532B, 4533B and 4534B Installation Kits (4534B has longer EVA tubes between Manifold Blocks)

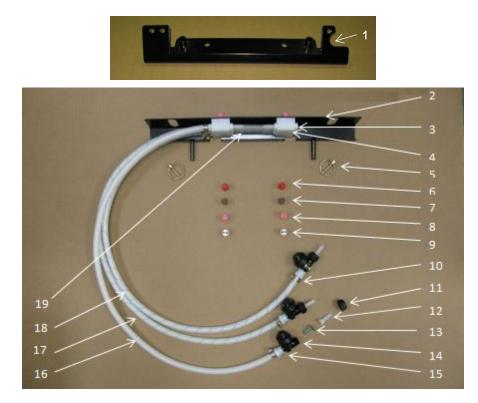


Ref	<b>Description</b>	Part Number	Qty	<u>Ref</u>	Description	Part Number	Qty
1	Holder	001-4435NCX	1	11	Сар	004-4723	3
2	Shield	001-4435NSX	1	12	Fitting	003-A1414VB	3
3	Fitting	003-F14	3	13	Strainer	004-1203-100	3
4	Manifold Block	001-4435NSB	2	14	Check Valve	004-1207VB	3
5	Lynch Pin	008-4576	2	15	Fitting	003-A1414F	3
6	Tip-Red	004-T8003-PT	2	16	Clear Tubing-1/4"	002-9016	3 ft
7	Tip-Brown	004-T80015-PT	2	17	Blue Stripe Tubing	002-9016B	3 ft
8	Tip-Pink	004-T8001-PT	2	18	Green Stripe Tubing	002-9016G	3 ft
9	Tip-Stainless	004-T800067-SS	2	19	EVA-1/4"	002-9006	* ft
10	Hose Clamp	003-9002	15		(*330 & LB334 use 1 ft, *34	40 & LB434 use 3 f	t)

<sup>20</sup> Leg Ext-Short Chamber 001-6707MX 2 (Included in 4532B Kits Only)



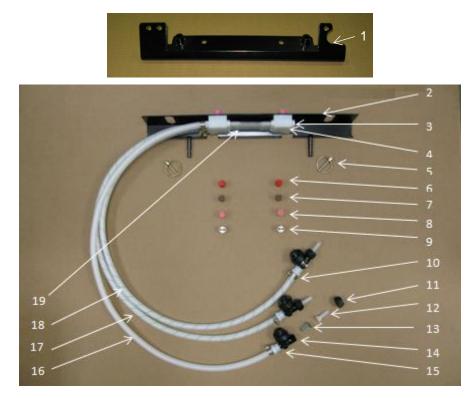
#### Harvest Tec Model 4535B and 4536B Installation Kit (4536B has longer EVA tubes between Manifold Blocks)



Ref	<b>Description</b>	Part Number	Qty	Ref	<b>Description</b>	Part Number	Qty
1	Holder	001-4435NC	1	11	Сар	004-4723	3
2	Shield	001-4435NSX	1	12	Fitting	003-A1414VB	3
3	Fitting	003-F14	3	13	Strainer	004-1203-100	3
4	Manifold Block	001-4435NSB	2	14	Check Valve	004-1207VB	3
5	Lynch Pin	008-4576	2	15	Fitting	003-A1414F	3
6	Tip-Red	004-T8003-PT	2	16	Clear Tubing-1/4"	002-9016	3 ft
7	Tip-Brown	004-T80015-PT	2	17	Blue Stripe Tubing	002-9016B	3 ft
8	Tip-Pink	004-T8001-PT	2	18	Green Stripe Tubing	002-9016G	3 ft
9	Tip-Stainless	004-T800067-SS	2	19	EVA-1/4"	002-9006	* ft
10	Hose Clamp	003-9002	15				

\*330 & LB334 use 1 ft \*340 & LB434 use 3 ft

#### Harvest Tec Model 4635B Installation Kit (Incudes 4535B & 6707WG3 Kits)



Ref	<b>Description</b>	Part Number	Qty	Ref	<b>Description</b>	Part Number	<u>Qty</u>
1	Holder	001-4435NC	1	11	Сар	004-4723	3
2	Shield	001-4435NSX	1	12	Fitting	003-A1414VB	3
3	Fitting	003-F14	3	13	Strainer	004-1203-100	3
4	Manifold	001-4435NSB	2	14	Check Valve	004-1207VB	3
	Block						
5	Lynch Pin	008-4576	2	15	Fitting	003-A1414F	3
6	Tip-Red	004-T8003-PT	2	16	Clear Tubing-1/4"	002-9016	3 ft
7	Tip-Brown	004-T80015-PT	2	17	Blue Stripe Tubing	002-9016B	3 ft
8	Tip-Pink	004-T8001-PT	2	18	Green Stripe Tubing	002-9016G	3 ft
9	Tip-Stainless	004-T800067-	2	19	EVA-1/4"	002-9006	1 ft
		SS					
10	Hose Clamp	003-9002	15		Shield Assembly (Ref 1-19)	030-4535B	

#### Wind Guard Assembly (3ft Baler)

<u>Ref</u>	<b>Description</b>	Part Number	<u>Qty</u>
20	Wind Guard Right Bracket	001-6707MER	1
21	Wind Guard Left Bracket	001-6707MEL	1
22	Backing Plate	001-6707MF	2
23	3' Wind Guard Flap	001-6707GM3	1
	Wind Guard Kit (Ref 20-23)	030-6707WG3	
	Complete 4635B Assembly (Ref 1-23)	030-4635B	
	21 22	<ul> <li>20 Wind Guard Right Bracket</li> <li>21 Wind Guard Left Bracket</li> <li>22 Backing Plate</li> <li>23 3' Wind Guard Flap</li> <li>Wind Guard Kit (Ref 20-23)</li> <li>Complete 4635B</li> </ul>	20Wind Guard Right Bracket001-6707MER21Wind Guard Left Bracket001-6707MEL22Backing Plate001-6707MF233' Wind Guard Flap001-6707GM3Wind Guard Kit (Ref 20-23)030-6707WG3Complete 4635B

#### Harvest Tec Model 4636B Installation Kit (Incudes 4536B & 6707WG4 Kits)

					- Re 1	
	19 18 17 16				2 3 4 5 6 7 8 9 10 11 12 13 14 15	
<u>Ref</u>	Description	Part Number	<u>Qty</u>	<u>Ref</u>	Description	Part Number
1 2	Holder Shield	001-4435NC 001-4435NSX	1	11 12	Cap Fitting	004-4723 003-A1414VB
2	Fitting	001-4435NSX 003-F14	1 3	12	Strainer	003-A1414VB 004-1203-100
4	Manifold	003-1 14 001-4435NSB	2	14	Check Valve	004-1203-100 004-1207VB
	Block		2			001 1207 00
5	Lynch Pin	008-4576	2	15	Fitting	003-A1414F
6	Tip-Red	004-T8003-PT	2	16	Clear Tubing-1/4"	002-9016
7	Tip-Brown	004-T80015-PT	2	17	Blue Stripe Tubing	002-9016B
8	Tip-Pink	004-T8001-PT	2	18	Green Stripe Tubing	002-9016G
9	Tip-Stainless	004-T800067- SS	2	19	EVA-1/4"	002-9006
10	Hose Clamp	003-9002	15		Shield Assembly (Ref 1-19)	030-4536B

<u>Qty</u> 

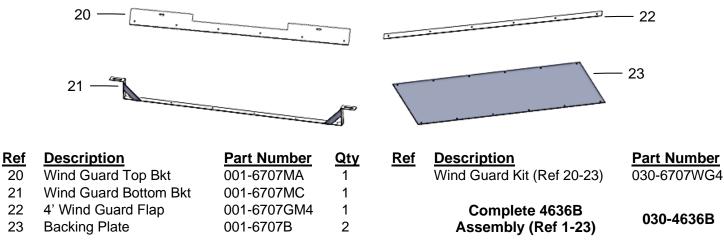
3 ft

3 ft

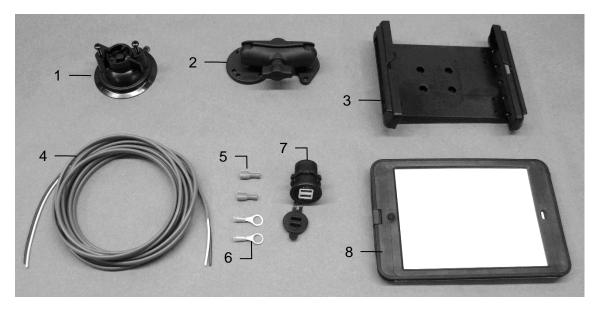
3 ft

3 ft

#### Wind Guard Assembly (4ft Baler)



### **Optional iPad Mini Mounting Kit (030-2014MK)**



<u>Ref</u>	<b>Description</b>	Part #	<u>Qty</u>
1	Suction cup mount	001-2012SCM	1
2	Ram mount	001-2012H	1
3	iPad Mini <sup>®</sup> spring load cradle (Mini 4)	001-2012SLC	1
4	16 gauge power wire	006-4723P	1
5	Female spade connector	Hardware	2
6	Eye loop connector	Hardware	2
7	iPad Mini Charger 12V	001-2012P	1
8	iPad Mini 4 case	001-2012C4	1

Hardware

030-2014MK (Includes All Parts) 1

NP 4 amp fuse

Mounting Kit Assembly

#### Installation Instructions

- 1. Identify 12V power source for wires to connect.
  - a. Eye loops included if wiring directly to the battery is desired.
  - b. Test for key power source if preferred to have power to the USB shut off with the key.
- 2. Once power source is identified, cut wires to desired length.
- 3. Crimp the two supplied quick connectors onto each the white and black wire.
- 4. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
- 5. The wires will then be hooked to the designated terminals on the bottom of the USB plug
- 6. Drill a 1 1/8" hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
- 7. Feed the wires through the mounting hole.
- 8. If using the round plastic nut to secure plug in place, slide the nut back over the wiring before connecting the wires to powered source.
- 9. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
- 10. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
- 11. Once connected, hook a USB charging cord into the plug and connect a mobile device/tablet to ensure the plug is operating as you wish (key power working properly if necessary).

NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

\*iPad mini is a trademark of Apple Inc., registered in the U.S. and other countries.

## **Optional iPad Display Kit (030-4670DK)**

4 -			• •		9		
<u>Ref</u>	Description	Part #	<u>Qty</u>	<u>Ref</u>	<b>Description</b>	Part #	<u>Qty</u>
1	Suction cup mount	001-2012SCM	1	7	iPad Mini Charger 12V	001-2012P	1
2	Ram mount	001-2012H	1	8	iPad Mini 4 case	001-2012C4	1
3	iPad Mini <sup>®</sup> spring load cradle (Mini 4)	001-2012SLC	1	9	iPad Mini 4	006-4670IP	1
4	16 gauge power wire	006-4723P	1	NP	4 amp fuse	Hardware	1
5	Female spade connector	Hardware	2				
6	Eye loop connector	Hardware	2	Mou	nting Kit Assembly	030-4670	ЭК

(Includes All Parts)

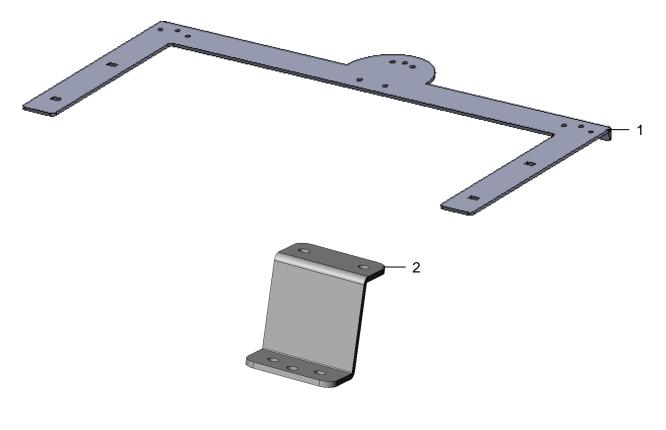
#### Installation Instructions

- 1. Identify 12V power source for wires to connect.
  - a. Eye loops included if wiring directly to the battery is desired.
  - b. Test for key power source if preferred to have power to the USB shut off with the key.
- 2. Once power source is identified, cut wires to desired length.
- 3. Crimp the two supplied quick connectors onto the white and black wire.
- 4. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
- 5. The wires will then be hooked to the designated terminals on the bottom of the USB plug
- 6. Drill a 1 1/8" hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
- 7. Feed the wires through the mounting hole.
- 8. If using the round plastic nut to secure plug in place, slide the nut back over the wiring before connecting the wires to powered source.
- 9. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
- 10. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
- 11. Once connected, hook a USB charging cord into the plug and connect a mobile device/tablet to ensure the plug is operating as you wish (key power working properly if necessary).

## NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

\*iPad mini is a trademark of Apple Inc., registered in the U.S. and other countries.

## **Optional Rear Light/Camera Brackets**



<u>Ref</u>	<b>Description</b>	Part #	<u>Qty</u>
1	Rear Mounting Handrail	001-6707PM	1
2	Camera Mount Bracket	001-6707PMZ	1
NP	Light Extension Harness	006-7303LTX	1

#### Notes:

#### Harvest Tec Inc. Warranty and Liability Agreement

Harvest Tec, Inc. will repair or replace components that are found to be defective within 12 months from the date of manufacture. Under no circumstances does this warranty cover any components which in the opinion of Harvest Tec, Inc. have been subjected to negligent use, misuse, alteration, accident, or if repairs have been made with parts other than those manufactured and obtainable from Harvest Tec, Inc.

Our obligation under this warranty is limited to repairing or replacing free of charge to the original purchaser any part that in our judgment shows evidence of defective or improper workmanship, provided the part is returned to Harvest Tec, Inc. within 30 days of the failure. If it is determined that a non-Harvest Tec branded hay preservative has been used inside the Harvest Tec applicator system where the failure occurred, then Harvest Tec reserves the right to deny the warranty request at their discretion. Parts must be returned through the selling dealer and distributor, transportation charges prepaid.

This warranty shall not be interpreted to render Harvest Tec, Inc. liable for injury or damages of any kind, direct, consequential, or contingent, to persons or property. Furthermore, this warranty does not extend to loss of crop, losses caused by delays or any expense prospective profits or for any other reason. Harvest Tec, Inc. shall not be liable for any recovery greater in amount than the cost or repair of defects in workmanship.

There are no warranties, either expressed or implied, of merchantability or fitness for particular purpose intended or fitness for any other reason.

This warranty cannot guarantee that existing conditions beyond the control of Harvest Tec, Inc. will not affect our ability to obtain materials or manufacture necessary replacement parts.

Harvest Tec, Inc. reserves the right to make design changes, improve design, or change specifications, at any time without any contingent obligation to purchasers of machines and parts previously sold.

Revised 4/17

HARVEST TEC, INC. P.O. BOX 63 2821 HARVEY STREET HUDSON, WI 54016 PHONE: 715-386-9100 1-800-635-7468 FAX: 715-381-1792 Email: info@harvesttec.com